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ABSTRACT OF THE DISCLOSURE

5 A method for embedding digital watermark
data in digital data contents includes the steps of
obtaining a frequency coefficient of block data of
digital data contents, obtaining a complexity of the
block data, obtaining an amount of transformation of
the frequency coefficient from the complexity and
the digital watermark data, and embedding the
digital watermark data by transforming the frequency
10 coefficient. In addition, a method for reading
digital watermark data includes the steps of
calculating a probability of reading '1' or '0' in a
read bit sequence by using a test method on the
basis of binary distribution, determining the
15 presence or absence of digital watermark data
according to the probability, and reconstituting
digital watermark data. Another method includes the
steps of performing soft decision in code theory by
assigning weights to the digital watermark sequence
20 with a weighting function, and reconstituting
digital watermark data.

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